ARCTIKO

The art of simplicity®

Vaccine Catalogue 2012

Icelined refrigerators & vaccine/icepack freezers

ISO 9001:2008 and ISO 13485:2003

LABORATORY, PHARMACEUTICAL AND MEDICAL REFRIGERATION

ARCTIKO

The art of simplicity®

Patent Pending World

CE

SINGLE compressor system

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With the QR code it's easy to get more information about any product in the entire catalogue. You need a smartphone with camera and access to the Internet. Download a program or an application that can read QR codes. Search for barcode scanner, QR code scanner and QR reader and install the app. You can now scan the barcode for each product on our catalogue and get directly on www.arctiko.com where the product is described in details.

CHECK ME

www.arctiko.com

ARCTIKO

The art of simplicity®

ISO certificates

Certificate of Registration
ISO 9001:2008
Arctiko A/S
ARCTIKO
Arctiko A/S
Lammefjordsvej 5, 6715 Esbjerg
The Quality Management System is applicable to:
Research, development and sales of ultra low temperature freezers and laboratory refrigerators and freezers.

ISO 9001:

ISO 9001 is the most used International standard in the world; it streamlines & documents Arctiko's working processes and ensure that the production always produce in accordance with high quality always expected by Arctiko Partners.

Arctiko do use the ISO 9001 standard in all business processes within the R & D, Sales, Marketing, Manufacturing, with continuous monitoring and optimization of business processes and manufacturing methods. This ensures that Arctiko, not only in commercial, but all areas to meet customers expectations/ demands in communications, documentations, deliveries, & administration.

ISO 13485:

ISO 13485 is a standard for design & manufacture of medical equipment. It is an independent standard certification that is generally harmonized with ISO 9001. The standard has been prepared in accordance with the European Commission; with the essential requirements of EU directives for medical devices &CE marking.

For Arctiko the ISO 13485 is a quality management system to ensure that our products meets the EU directive 93/42/EEC for medical devices. Class I devices is approved by Arctiko, whereas Class II equipment must be approved by an external certification company. For both Arctiko prepared Technical File which verified that the equipment meets the essential requirement of EU directive 93/42/EEC for medical devices & CE marking.

This ensures that Arctiko customers at any time can be comfortable to use Arctiko products which are classified as Class I & II for medical devices.

INTERTEK ISO 9001:2008

INTERTEK ISO 13485:2003

Service and support

Thomas Sølbeck Schmidt is our Service and Technical support manager. He has over 20 years of experience and knowledge in Cooling Technology and Controls, and he will be able to answer any enquiries you may have regarding:

- Spare parts ordering/delivering/pricing
- Product maintenance and servicing
- Technical and after sales support
- Instruction and service manual
- Service training sessions for dealers

Most common questions can be found directly on our website www.arctiko.com under "service".
In that column we also have a section called "FAQ" (Frenquently Asked Questions) to target specific enquiries about each product, in each range.

Service training dates for 2012

ARCTIKO A\S organizes training in service and product knowledge for our products, on the following dates:

27th and 28th February 2012

7th and 8th May 2012

3rd and 4th September 2012

26th and 27th November 2012

Please contact

Mr. Thomas Sølbeck Schmidt
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tss@arctiko.com or
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Service no.: +45 7517 1334

We usually have small groups of 6 to 8 people per session.

Testing

Each item from Arctiko is carefully tested in our Technical Unit, in Denmark. Our products go through various Production Quality Tests such as visual inspection, temperature fluctuation, pull down test, the stability of the temperature inside the freezer, the alarms for hold overtime, etc. All these PQ tests are performed on empty freezers, which mean that once they contain products, their efficiency and accuracy will increase even more.

Packing

Our warehouse is in charge of the packing of our goods in order for them to travel in the safest conditions. Each item is carefully wrapped in polystyrene and cardboard or wooden boxes. We also equip most crates with a tilt watches to monitor the shipping; this will ensure a preventative effect against transport damages.

Shipping

Handling and shipping freezers is a very delicate operation; that's why we only use the most reliable and professional shipping companies to guarantee that the packages will reach their delivery destination in perfect condition. Spare parts deliveries will also be arranged by our shipping team in the best possible delays.

Arctiko
is at the following Trade Shows:

- Medica, Düsseldorf, Germany
- Arab Health, Dubai, United Arab Emirates
- Arab Lab, Dubai, United Arab Emirates
- Pittcon, USA
- FIME, USA
- ACHEMA, Germany
- Analytica, Germany
- Analitica, Brazil
- BioTechnica, Germany
- ScanLab, Denmark
- PharmaExpo, Mexico

And local domestic trade shows will be visited by Arctiko Staff.
For setting up meetings during these shows, please contact us at:
info@arctiko.com

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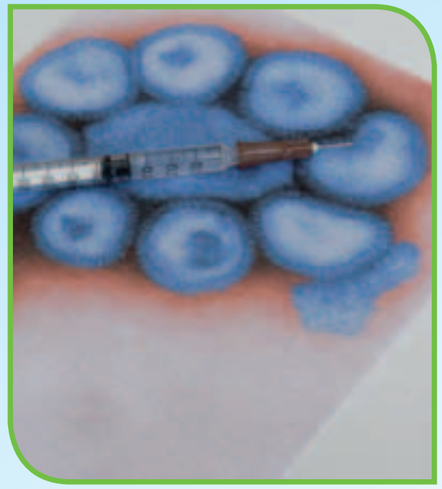
SolarChill - Vaccine refrigerator powered by Nature

Arctiko Solutions are proud to introduce, the vaccine refrigerator powered by nature. A new technology where the appliance is solely driven by the sun, directly from solar panels.

No longer need for separate inconvenient and expensive lead batteries as energy saver, or polluting kerosene as fuel. Now energy is stored in a large natural ice bank. Temperature control through selfregulating convection between ice storage compartment and vaccine compartment. Easy to operate and no running expenses. Furthermore, by using hydrocarbon Danfoss compressor and cyclopentane blown insulation foam - no contribution to ozone depletion or global warming.



Specifications

- 48 liters gross volume
- Vaccine storage capacity 19,5 liters
- Temperature range 2° - 8°C at ambient temp. 20° - 32°C
- ambient temperature
- Autonomy at 32°C: 147 hours
- Hold over me during power cut: 114 hours
- Min. 160 W premium solar panels required
- 3 storage baskets
- 3 separate ice packs to carry vaccine
- Height: 880 mm
- Width: 730 mm
- Depth: 700 mm

Model	Solar Chill	Solar Panels
Item code (DAI no.)	DAI 190	DAI 191
Dimensions exterior HxWxD (mm)	876x727x697	.
Temperature range (C)	+2°C/+8°C	.
Net Capacity (L)	19,5	.
No. of baskets	3	.
Solar Panels required	min. 160 Watts	3x80 pw
Hold over time (during power failure)	114 hrs	.
Separate icepacks to carry vaccines	3	.

+2°C/+8°C

LOW ENERGY CONSUMPTION

The reliable ice-lined refrigerators, approved by WHO/UNICEF

Life saving vaccines must be stored under extremely precise and steady conditions, in order to ensure maximum efficiency. Over the years, our researches and constant development have made us the expert in temperature control. Arctiko is one of the world's leading supplier of medicine coolers, manufacturers of stable and reliable units that will keep your precious vaccines safe from any temperature changes that could harm the medicines. Our ice-lined refrigerators have been approved by WHO/UNICEF to meet their medical requirements and standards (E3/RF3).

VR 70

VR 110

VR 70 and VR 110. Ice-lined refrigerators

Our electronic thermostats and the ice-lining will guarantee you perfect temperature control in the range +2°C to +v8°C. The temperature inside the unit is steadily checked on the external digital thermometer. The effective insulation and the ice-lining will ensure an exceptionally long hold-over time in case of a power failure. The cabinet is filled with baskets, allowing very organized storage; the galvanized steel cabinet protects against any rust and the evaporator tubing is made of copper, for maximum resistance. The appliances are supplied in robust wooden crates for the transportation.

(The special ice-lining and ballast boxes ensure temperatures stability and extended hold-over time in case of power failure.)

Model	VR 70	VR 110
Item code (DAI no.)	DAI 172	DAI 172
Dimensions exterior HxWxD (mm)	840x920x700	840x1260x690
Temperature range (°C)	+2°C/+8°C	+2°C/+8°C
Net Capacity (L)	75	105
No. of Baskets	5	7
Energy consumption (Kwh/24hrs)	1,89	3,20
Hold (time during power failure)	20,1 hrs	25,66 hrs
Power Supply (V)	230	230
Frequency (Hz)	50	50

+2°C/+8°C

LOW ENERGY CONSUMPTION

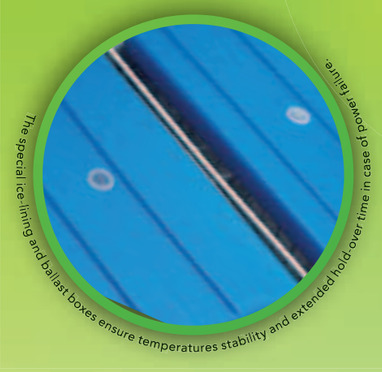
VR 60. Ice-lined refrigerator

The VR60 is designed for demanding tasks, where temperature must stay stable and constant in a range of +2°C to +8°C. In the event of a power cut, the ice-lining will keep the temperature inside the unit at the same temperature for more than 50 hours !

The Icepacks are in two separate compartments in the main refrigerator, to allow simultaneous freezing of the icepacks. The two additional lids inside the unit will allow you to save power consumption, and therefore also reduce your energy costs.

VR 60

VR 140


The special ice-lining and ballast boxes ensure temperatures stability and extended hold over time in case of power failure.

Model	VR 60	VR 140
Item code (DAI no.)	DAI 0168	DAI 0169
Dimensions exterior HxWxD (mm)	840x720x700	860x1260x700
Temperature range (°C)	+2°C/+8°C	+2°C/+8°C
Net Capacity (L)	16	145
No. of Basket	2	7
Energy consumption (Kwh/24hrs)	3,46	0,82
Hold over time (during power failure)	53 hrs	30,6 hrs
Power supply (V)	230	230
Frequency (HZz)	50	50

-28°/-18°C

REMEMBER TO GET A QUOTE ON OPTIONS

VF120/220/320
Vaccine/ice-pack freezers

The thermostat ensures stable temperature control in the range -18°C to -28°C. The 100mm insulation guarantees exceptional hold-over time in case of power failure. The external digital display facilitates temperature monitoring, and the robust handle with built-in lock offers protection against unauthorized access. The cabinets are extremely well protected against rust, with its zinc coated evaporator tubing. The appliances are delivered in robust wooden crates to protect them from any damage during the transportation.

VF120

VF220

Model	VF 120	VF 220
Item code (DAI no.)	DAI 174	DAI 175
Dimensions exterior HxWxD (mm)	850x1260x600	850x1130x600
Temperature range (°C)	-28°C/-18°C	-28°C/-28°C
Net Capacity (L)	72	192
No. of Baskets	2	2
Energy consumption (Kwh/24hrs)	1,58	1,93
Hold over time (during power failure)	13	15,5
Power Supply (V)	230	230
Frequency (Hz)	50	50

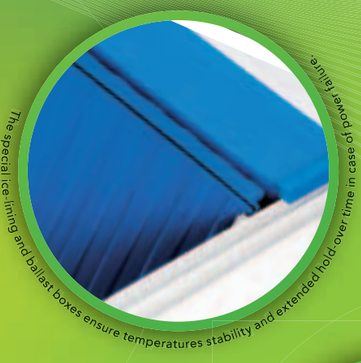
LOW ENERGY CONSUMPTION

-28°/-18°C

Reliability is the essence of our freezers

Our ice-pack freezers are characterized by unparalleled temperature stability, which means that even with a power cut, the ice packs will keep your vaccines in a stable state inside the unit, instead of losing the cold slowly. You will also be delighted with its user-friendliness and ease of cleaning, thanks to its simple layout and lines.

VF320


The special ice-lining and ballast boxes ensure temperatures stability and extended hold over time in case of power failure.

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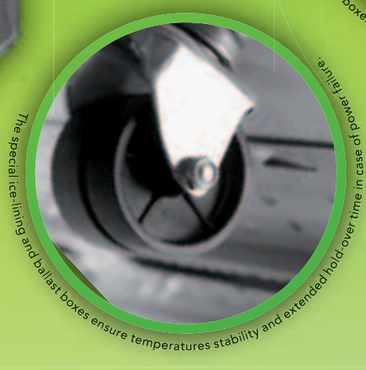
The special ice-lining and ballast boxes ensure temperatures stability and extended hold over time in case of power failure.

Model	VF 320
Item code (DAI no.)	DAI 176
Dimensions exterior HxWxD (mm)	850x1560x600
Temperature range (C)	-28°C/-18°C
Net Capacity (L)	264
No. of Baskets	3
Energy consumption (Kwh/24hrs)	2,71
Hold over time (during power failure)	17,5 hrs
Power Supply (V)	230
Frequency (Hz)	50

ORIGINAL RELIABLE ARCTIKO ACCESSORIES

SVS Voltage Stabilizers

The Sollatek SVS monitors the mains voltage continuosly. If the voltage rises or drops, the SVS will stabilize the output to ensure the voltage reaching your equipment remains constant at 230V (+/-6%), within the operating range of the unit. If the voltage falls below 142V or rises above 295V, the SVS will disconnect the output, thereby protecting the load. Once the main voltage returns again within acceptable limits, the SVS will reconnect the output following a start up delay.

The SVS will ensure that your equipment will receive normal, stabilized power which is essential for refrigeration equipment in unsteady power areas to ensure:

- Long service operation without damage.
- Ensure that the contents of the refrigeration is kept at the optimal temperature.

Features

- Microprocessor controlled stabilizer
- Very wide input voltage range
- Excellent output voltage stability
- Includes surge and spike suppression
- Extremely fast response
- Incorporates over-voltage and under voltage disconnect
- Incorporates TimeSave feature

SVS04-22

SVS08-22

Model	Amps	VA@240V	Socket	Weight (kg)	Dims (mm)	Case	Type
SVS04-22	4	960	Schuko	3	240x178x150	A	Plastic
SVS08-22	8	1920	Schuko	3	270x387x160	B	Plastic

We reserve the right to change specifications without notice. Subject to confirmation and availability.

Technical specifications

Model	VR 70	VR 110	VR 60	VR 140	VF 120	VF 220	VF 320
Item code (DAI no.)	DAI 172	DAI 173	DAI 0168	DAI 0169	DAI 174	DAI 175	DAI 176
Dimensions exterior HxWxD(mm)	840x920x700	840x1260x690	840x720x700	860x1260x700	850x1260x600	850x1130x600	850x1560x600
Temperature Range (C)	+2°C/+8°C	+2°C/+8°C	+2°C/+8°C	+2°C/+8°C	-28°C/-18°C	-28°C/-18°C	-28°C/-18°C
Net Capacity (L)	75	105	16	145	72	192	264
No. of Baskets	5	7	2	7	2	2	3
Energy consumption (Kwh/24hrs)	1,89	3,20	3,46	0,82	1,58	1,93	2,71
Hold Over Time (during power failure)	20,1 hrs	25,66 hrs	53 hrs	30,6 hrs	13 hrs	15,5 hrs	17,5 hrs
Power Supply (V)	230	230	230	230	230	230	230
Frequency (Hz)	50	50	50	50	50	50	50

Measured at ambient temperatures of 32/43°C respectively.
Energy sources: 220 V AC/50 HZ. Available in various voltages: 115, 240 V AC, 50 or 60 Hz.
Voltage stabiliser recommended where power supply is intermittent.
Icelined refrigerators A minimum of 8 hours' electricity is needed per 24 hours at 43°C.
All models are equipped with CFC-free systems.

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References

Laboratories

State Serum Institute, Copenhagen, Denmark · Max Planck Institute, Heidelberg, Germany · Laboratory SZU, Prague, Czech Republic · Biotest, Pardubice, Czech Republic · FNKV, Prague, Czech Republic · Vidia, Prague, Czech Republic · Endokrinologie, Prague, Czech Republic · FN Brno, Czech Republic · National Cancer Cell Research Institute, Japan · National Institute for Environmental · Studies, Japan · National Institute of Health Sciences, Japan · National Institute of Neuroscience, Japan · Research Institute International Medical Centre of, Japan · National Institute of Infection, … Fisher…

Hospitals

Roskilde Hospital, Denmark · Copenhagen Hospital, Denmark · Atatürk University Hospital, Turkey · Tokyo University Hospital, Japan · Hospital NsP Na Homolce, Prague, Czech Republic · Sharite Medical Hospital, University of Berlin, Germany · University Hospital Center of Annaba, Algeria · University Hospital Center of Tlemecen, Algeria

Universities

Aalborg University, Denmark · University of Copenhagen, Denmark · Cambridge University, United Kingdom · Ondokuzmayis University, Turkey · Ege University, Turkey · The University of Tokyo, Japan · Osaka University, Japan · Kyoto University, Japan · Hoddaido University, Japan · The University of Tokushima, Japan · Kumamoto University, Japan · Nippon Medical School, Japan · Tokyo Medical University, Japan · Tokyo Medical and Dental University, Japan

Institutes

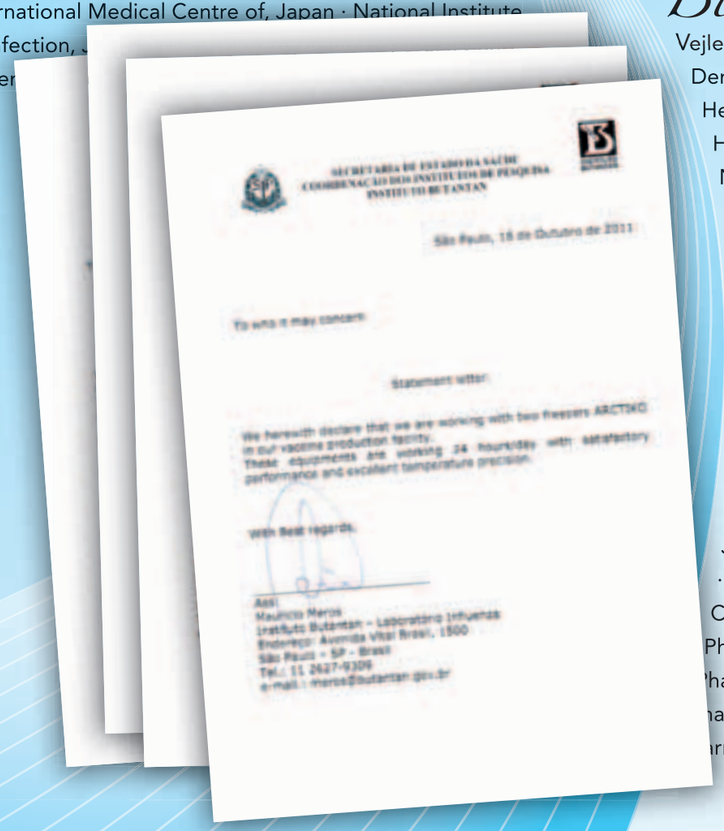
Statens Serum Institut, Denmark

Biomedical Sector

Vejle Hospital, Denmark · Holbaek Hospital, Denmark · Naestved Hospital, Denmark · Herlev Hospital, Denmark · Glostrup Hospital, Denmark · Biomedical Sector, Nove Mesto na Morave, Czech Republic · Biomedical Sector, Jilemnice, Czech Republic · Biomedical Sector, Hradec Kralove, Czech Republic

Private Sector

Novo Nordisk, Denmark · Statens Serum Institut, Denmark · H. Lundbeck A/S, Denmark · Orion Pharmaceutical Company, Finland · Mono jo (Antibody production), Jordan · Abot Japan Co., Japan · Kissei Pharmaceutical Co., Japan · Dai-Ichi Pharmaceutical Co., Japan · Chugai Pharmaceutical Co., Japan · Nissui Pharmaceutical Co., Japan · Banyu …harmaceutical Co., Japan · Mitsubishi …arma Corporation, Japan · Yamanouchi …rmaceutical Co., Japan · Asahi Breweries,



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